thetech.com

Volume 137, Number 5



WEATHER, p. 2

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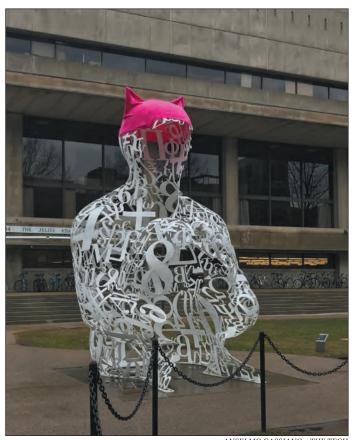
Mosty Sunny

FRI: 40° F | 17° F

Slight Change of

SAT: 21°F | 12°F Partly Cloudy

Thursday, March 09, 2017



In tribute to International Women's Day, hackers capped The Alchemist with a "pussy hat" fashioned after the hats worn by participants of January's women's march in Washington.

MIT students to recommend policies for the Massachusetts Democratic party's platform

Cambridge Ward 2, composed almost completely of MIT students, is revived after 3-year-long period of inactivity, 20 delegates to attend state convention

By Anshula Gandhi
NEWS EDITOR

MIT students will voice their ideas as representatives of Cambridge's Ward 2 at the Massachusetts Democratic State Convention this June to help shape the party's platform. It will be the first time since 2014 that Ward 2 has been active

"I didn't really consider myself a Democrat, until a few months ago," Mariam Dogar '20, a member of MIT Democrats and part of the committee that will select delegates for the state convention, said in an interview with *The Tech*. "I'm still not 100 percent sure that I support everything. But then I realized you don't have to 100 percent support everything to be part of a party. And that's why parties vote on platforms — because there are differing opinions."

One region of Cambridge, composed of almost entirely the MIT campus, hasn't sent any delegates to the Massachusetts Democratic State Convention for the past three years. This region is Ward 2 — one of the 11 wards into which Cambridge is split.

David Sullivan '74, a member of the Ward 2 delegation while an MIT undergraduate, said in a phone interview with *The Tech*: "When I tried to register to vote as an MIT student in 1972, they wouldn't let me register to vote in Cambridge. The line I got from the Cambridge Election Office was 'we don't register students here."

During Sullivan's time at MIT, he helped push for changes in state laws to make it easier for students to switch their voter registry from their hometowns to Cambridge.

In the past few weeks, MIT Democrats formed a committee representing Ward 2. This Sunday, the committee will select up to 20 delegates to go to the Massachusetts Democratic State Convention. These delegates will then have the opportunity to voice their opinions on what to incorporate into the state's party platform.

"I'm really glad that I now have a hands on way to make a little bit of change," Dogar said.

Dean of Eng. to step down in June, will leave 'with mixed emotions'

Recommends educational reform, more online resources

By Patrick Wahl

NEWS EDITOR

Ian Waitz, dean of the School of Engineering, announced in a Feb. 14 email to the school community that he will step down from the position June 30. In an interview with *The Tech*, he discussed the ups and downs of his time at the school, along with his plans for the future.

While Waitz said that leaving is something he does "with mixed

emotions," he believes his decision to step down will bring new energy and ideas to the office.

"I made a table when I started," he said, where he kept a list of the tasks he wanted to accomplish, and graded himself on his progress for each task using the colors red, yellow, and green. Waitz based his decision to leave the office on his evaluation that many of his plans have come to fruition, while the few left might be better solved by a

successor.

"You would like to think that you're irreplaceable," he said, but he feels the trade-off between his experience and the ingenuity of a new dean has shifted in favor of hiring a replacement.

Waitz also cited his waning fervor for the position as a reason for stepping down. Instead of dealing with the big issues he enjoys most, he

Dean, Page 2

IN SHORT

Add date is Friday, Mar. 10. This is the last day to add classes, change classes to sophomore exploratory or junior/senior P/D/F, switch from listener to credit, and drop half-term subjects.

The new Atlas Service Center will open in building E17 next Monday. Services moving include MIT ID card services, commuter programs offered by the Parking and Transportation Office, I-9 processing, and Tech-CASH services. Its former offices in W20 will be closed starting Friday.

Housing and dining forms for fall 2017 are now open on myhousing. mit.edu. Freshmen, sophomores, and juniors are required to complete the form to renew or cancel their on-campus housing by Apr. 2.

Patagonia's Worn Wear College Tour will be coming to building W20 on Friday from 10-5 p.m., with a panel discussion from 5-7p.m. This is a mobile repair shop where people can get their garments repaired and learn how to fix their own gear.

Send news and tips to news@tech.mit.edu.

SafeRide to be replaced

UA to introduce new ride-sharing service

By Patrick Wahl

The Undergraduate Association announced yesterday that beginning in September an on-demand ride-sharing service will replace the nighttime SafeRide shuttles which service MIT students in Cambridge, Boston, and Somerville.

The UA met with the Parking and Transportation Office, the MIT Police, the Panhellenic Association, and the Interfraternity Council to discuss plans for the project starting last October. The on-demand service will be modeled after Harvard's student transit system and will operate similarly to ride-pooling services like UberPool and Lyft Line using vans which can hold about 15 people.

The groups selected Modo Labs, the MIT alum-founded company which developed the MIT mobile application, to design the mobile interface for the service.

UA Vice President Daysi Gomez '18 conceived of the idea while walking across the Harvard Bridge late one night last semester. "[Living in Boston] I've experienced the many struggles of the shuttle system," Gomez said in an interview with *The Tech*.

The ride-sharing service will aim to solve two main problems. The first, ironically, is safety — buses like those used by SafeRide are not allowed on certain roads near many MIT living groups including tEp and Phi Kappa Theta per Boston law, so

Ride-sharing, Page 3



The MIT Energy Career Fair took place March 4 in Lobdell.

ANSELMO CASSIANO—THE TECH

ELECTION WOES

UA delays spring elections, faces paucity of candidates. **NEWS**, **p. 4**

INT'L WOMEN'S DAY

"I raise up my voice — not so I can shout, but so that those without a voice can be heard...we cannot succeed when half of us are held back." — Malala Yousafzai



TECH TRANSFERS

Born in India, at home in America. **CAMPUS LIFE**, **n. 9**

BEANS IN BEEF'S CLOTHING

Our writer critiques a new vegan restaurant, fresh from NY. **ARTS**,

SECTIONS

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2 THE TECH THURSDAY, MARCH 09, 2017

WEATHER

Winter makes a strong return

By Jordan Benjamin STAFF METEOROLOGIST

Winter will make a strong return over the weekend after a cold front pushes through the region today. As cold air filters into the region, temperatures Saturday night will plunge into the lower teens as we turn our clocks forward. The frigid air will be accompanied by brisk winds, pushing wind-chills towards the single digits.

As cold air and calm weather settles into the northeast early next week, weather across the remainder of the country will remain active. A low pressure system will dive through the Ohio and Tennessee Valleys bringing rain and several inches of late-

season accumulating snowfall to parts of the Deep South. Wet conditions will continue across the Pacific Northwest, adding to what has been an incredibly wet and beneficial winter.

The snow-pack in the Sierra Nevada has been estimated to be 175 percent of average — a good sign for the coming spring and summer and a profound turnaround from just a few years ago. Back in Boston, early signs point to the potential for wintry precipitation to return for the middle of next week as spring remains far beyond the horizon. It appears it will be a while before anything similar to the intermittent periods of warmth Boston has recently experienced returns.

Extended Forecast

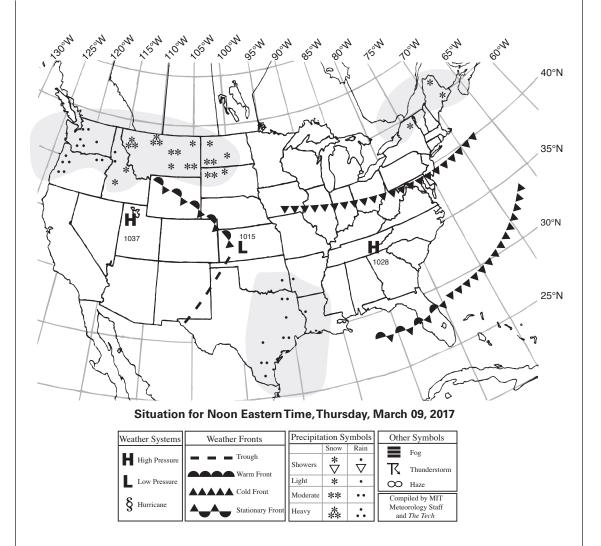
Today: Mostly Sunny. High around 45°F (7°C). Winds W at 15-25

Tonight: Mostly Cloudy. Low around 30°F (*1°C). Winds W at around 10 mph.

Tomorrow: Slight Chance of Snow Flurries. Mostly Cloudy. High around 40°F (4°C). Low around 20°F (-7°C). Winds N at around 5-10 mph.

Saturday: Partly Cloudy. High around 21°F (-6°C). Low around 12°F (-11°C). Winds NW at 15-25 mph.

Sunday: Partly Cloudy. High around 28°F (-2°C).



Position of dean is "the best job in the world," Waitz says

Dean, from Page 1

must spend a large portion of his time dealing with common jobs like hearing promotion cases and awarding fellowships.

"It can be relentless in terms of the things you have to do," he said, noting that the tasks become repetitive. "There's more days where you're not as enthusiastic about it, because you've just sort of done it." He noted that his work takes away time with his family, up to seven days a week.

Despite the drawbacks of the dean position, Waitz said "it's got to be the best job in the world," emphasizing the people he has gotten to work with as a highlight

Waitz divided his proudest ac-

complishments into the categories of student-focused and management-focused. For students, he listed the MIT Sandbox Innovation Fund Program as one of his favorite programs established during his term, saying that he was "wildly enthusiastic" about the "inspiring" ideas that have come out of the project.

On the management side, he said that he is most pleased with how he has made school administrative operations more "open, transparent, and collaborative." For example, he began providing slides to the school administration with his decisions and the rationale behind them. He compared this work to the blocking and tackling done by football linemen, which is often overshadowed by the feats of other players, but plays a pivotal role in the sport.

There is still room for the school to grow in many places, Waitz said, saying that it should focus on "really significant education innovation."

"It's hard to take a big ship that's been operating for 150 years, largely on one educational model, and shift it," he said. He suggested placing a bigger emphasis on online education as a way to modernize the education MIT offers to

Waitz said that the MIT administration has huge opportunities to give students an outstanding freshman experience, calling the year the "defining entryway to MIT," and that he would like

to see the School of Engineering implement a school-wide degree for students who would prefer a broader program than the ones currently offered by the school's departments.

As for his own future, Waitz said that the "job is all consuming when you're in it," and that he has not even had time to think about what comes next. Though he won't decide until he has "had some time to decompress," he said that he will ideally remain at MIT, having worked here for 26 years.

On Monday, Provost Martin Schmidt announced the committee, chaired by Professor Krystyn Van Vliet Ph.D. '02 of the Department of Materials Science and Engineering, which will search for Waitz's replacement.

Solution to Add

from page 10

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Solution to Drop

from page 10

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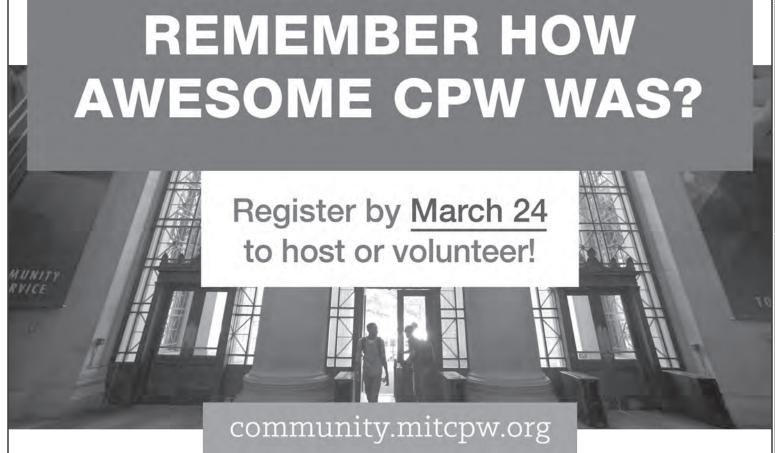
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Solution to Fellow at First

from page 11

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CAMPUS PREVIEW WEEKEND



THURSDAY, MARCH 09, 2017

THE TECH 3

Service will help improve student safety

Ride-sharing, from Page 1

students from these living groups must walk for a long time at night to reach their homes from the bus stops. Ride pooling vehicles, on the other hand, would be allowed on the streets under such laws.

The second problem MIT and the UA hope the on-demand service will improve is the inefficiency of the current SafeRide system, which services stops at fixed locations in a fixed order and can be crowded at peak times.

The UA plans to operate the service at least as late at night as the current SafeRide, which stops at 2:30 a.m. Sunday through Wednesday and 3:30 a.m. Thursday through

The UA will begin to implement the service during the summer, waiting until after spring exams so as to not "mess up students' lives" in case there are kinks in the rollout, Gomez said.

Are you a tetris ninja?

Use your powers for good!

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WELCOME THE CLASS OF 2021

Over Spring Break, attend an **Admitted Student Meeting** in your hometown!



Mingle with new admits and MIT Alums

Share your MIT experience

Reconnect with your Alumni Interviewer

Interested? Email admitparties@mit.edu

MIT Admissions



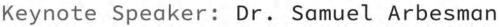


Center for Computational Engineering

Student symposium

> MIT Samberg Conference Center 4-7pm | March 16th

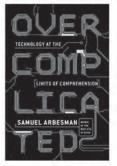
4:15pm Keynote | 5:15pm Poster session | 6:00pm Reception



Author of "Overcomplicated: Technology at the limits of comprehension"

Abstract: From the power grid to the stock market to the latest iOS, complex systems are plagued by unintended glitches, unpredictable behavior, and unexplainable system failures. Why can't we make things simpler? Is technological complexity

inevitable? And how are we supposed to deal with technology that nobody can understand anymore? This talk explores the forces that lead us to continue to make systems more complicated and more incomprehensible, despite our desire for them to be more coherent. A framework for thinking about and handling these complex systems is provided, which involves numerous approaches, including importing ideas from biology and philosophy into the realm of technology, as well as how to rekindle generalists in the face of ever-increasing specialization.





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UA delays spring elections after its Election Commission chair resigns

Doors of UA are open to students, Liu says in call for candidates

By Marie Patino

The Undergraduate Association has decided to delay its spring elections after the chair of its Election Commission resigned. Kyle Archer '18, the current chief of staff, nominated Scott Perry '19 to replace the former chair, Kathleen Chen '17, earlier this month.

According to the new election agenda, the UA will release petition packets on March 13, and students have until March 24 to

return them signed. Campaigns can start after spring break, on April 3. Voting will be open between April 17 and April 21, followed by the announcement of the winners on April 22.

The decision to change the election timeline was reached by UA councillors over email, an unusual step taken after the UA's March meeting was cancelled.

All MIT undergraduates are eligible to hold a position in the Undergraduate Association and can run in the upcoming elections. However, the UA seems to face a recurrent struggle in finding presidential candidates. Last year, a single student ran for President: Sophia Liu '17, the current President.

In order to be valid candidates, students have to submit a petition signed by 10 to 15 percent of the student body, Liu explained. This represents approximately 500 student signatures. Students can sign more than one petition.

The UA is composed of 17 committees and collaborates

with 200 students. Its budget of \$400,000 goes to organizing various projects throughout the year, among them last December's Tech Twinkles and the new faculty dinner initiative.

Liu emphasized her desire to increase transparency and find ways to communicate with the student community. The doors of the UA are open to students who would like to help on this matter, she said, noting that difficulty in mass communication seems to be behind the current lack of candidates for UA positions.

Want to draw graphics that engage, provoke, and speak to the MIT community?

The Tech is looking for editorial cartoonists.

join@tech.mit.edu



CONCERT REVIEW

A return to the classics

The Philharmonia Quartett Berlin performs Haydn, Beethoven, and Schumann



ROBERT TORRES

Violinists Daniel Stabrawa and Christian Stadelmann, violist Neithard Resa, and cellist Dietmar Schwalke perform at Jordan Hall.

By Ivy Li

Founded over 20 years ago and critically acclaimed, the Philharmonia Quartett Berlin has a large repertoire and history of international concerts. Performing for the second time in the Celebrity Series of Boston, the quartet members welcomed

the audience to their lifelong exploration of classical music.

The violins did not merely recite: they sang. Stabrawa and Stadelmann drew out elegant passages that cloaked the audience in a stupor. The first movement of Haydn's Quartet in G Major lingered around a repeated theme, as if revolving around a lost memory before moving on.

This elegant motif set the tone for the rest of the night.

The other four movements of Haydn's Quartet were equally beautiful. The passages with pizzicato were crisp, light, and dainty. Incorporating folk dance elements, the Menuetto was performed with a liveliness and delicate touch, and the finale felt like a seamless introduction to

Philharmonia Quartett Berlin

Presented by the Celebrity Series of Boston

NEC's Jordan Hall

Mar. 3, 2017

the following quartets, both inspired by Haydn.

The Quartett performed the five movements of Beethoven's Quartet in B-flat Major with animated fervor. Beethoven's composition shifts its tone mercurially; slow, somber phrases didn't last long before soaring into uplifting, vivacious passages.

The introduction to the finale, titled La Malinconia was marked with tension, a seeming exception to the exuberance of the previous movements. Even the final movement, Alegretto quasi Allegro, was tinged with lingering regret while triumphantly ending the tragedy with a dramatic finish.

The less dramatic Quartet in A Minor is a product of Schumann's expansion outside of his former piano compositions since 1840. Schumann's Quartet in A minor draws from Bach — and like Beethoven, also draws from Haydn — but its Scherzo: Presto movement especially echoes passages from Mendelssohn's works.

With elegant artistry that only comes from decades of experience, the Quartett's performance was effortless and stunning. It was no surprise for performers of their caliber, but their visible dedication to their craft is praiseworthy. I left rejuvenated that evening.



Want to make a positive impact on new MIT students this summer?

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Application Deadline: March 31st, 2017 11:59 pm.



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MOVIE REVIEW

Finding a place to be loved

My Life as a Zucchini tells the whimsical tale of an orphaned boy's renewed hope

★★★☆☆ My Life as a Zucchini **Directed by Claude Barras** Rated PG-13 **Now Playing**

By Remi Godinez

A blue haired boy with a strangely red nose, ears, and enormous blue-rimmed eyes sits alone on the floor of an attic bedroom, building a tower out of beer cans. The walls behind him are covered in colorful, slightly-haunting drawings. Meet Icare or Zucchini, as his mother calls him the curious, nine-year-old protagonist of the whimsical stop motion animated film My Life as a Zucchini.

The film chronicles Zucchini's bumpy journey as he is sent to a home for foster children after his abusive, alcoholic mother's death. There, he encounters a literally colorful cast of children — from Simon, the cocky carrot-redhead, to Jujube, the sandyhaired worrywart who constantly wears a band aid on his forehead to cure his "headaches." All these children have experienced the worst traumas life has to offer, yet through the arrival of a new girl, Camille, they somehow find a way to form a warm community even when it seems as if there is no one left to love them.

The film's aesthetics alone are enough to carry it, even without the quirky characters and charming, uplifting storyline. The stop-motion technique lends a beautiful, silky feel to every instant. Stop-motion is a notoriously time-consuming process, with hundreds of slightly different photos strung together to give the illusion of continuous motion. All that effort is strikingly present in the final product; each frame of My Life as a Zucchini is an artistic masterpiece in its own right, from the white, craggy mountains on a class outing in the snow to the meticulous drawings in Icare's room in the opening scene. The colors, proportions and shapes in the world are slightly off, stylized in the same vein as Dr. Seuss or Tim Burton. When watching the movie, I couldn't help but marvel at the care and detail that went into each image. In this way, the movie almost transcends to the level of pure art.

While My Life as a Zucchini's plot may feel a little basic, the ambling feel of the movie lets the viewer focus on its delightful subtleties — the kids' quietly ridiculous dance party, or their hilarious discussion of "the thing with girls and boys." It allows the viewer a chance to return to childhood with these lively, unlucky kids, to just feel and appreciate life as it slowly passes by

One issue I have with the film is the disparity between its feel-good tone and the more serious topics it tackles. The film is adapted from a French novel by the same name that was intended for more mature audiences. However, in adapting the novel the filmmakers decided to target younger viewers — children. This gap in intended audiences can be seen in moments when



COURTESY OF GKIDS, INC

Icare, the main character of My Life as a Zucchini, faces equal parts tragedy and joy throughout the course of the film.

the scene cuts from one of the children discussing being beaten by his parents to one of the children frolicking happily in the snow. It sometimes feels as if the film takes too simplistic an approach to these tough issues by shying away and making it seem as if every foster child will find a happy

However, the film deserves commendation for broaching the difficult subject of foster children at all. Through its slightly

skewed aesthetics — the jagged, brightly colored trees and oddly proportioned people — the film offers a window into the world of a child mistreated by life. For kids like Icare, the story gives hope that things can get better no matter how dismal life may seem. The film immerses adults in a lost world, reconnecting them to the joys of childhood. My Life as a Zucchini allows all of us to join an abandoned boy on his journey to rediscover love.

RESTAURANT REVIEW

By Chloe's meat mimicry mostly misses the mark

By Josh Cowls STAFF WRITER

Between stories of animal rights abuses, health concerns and climate change, there have never been more reasons to cut out meat and dairy products entirely and take on a purely plant-powered lifestyle. From meatless Mondays to glossy vegan cookbooks, embracing a plant-only diet is becoming both easier and much more appetizing. Hopping aboard this trend is By Chloe, which recently opened its eighth location (and only its second outside New York) in Boston's Seaport district.

One look at By Chloe's menu tells you this is vegan food with the training wheels on. Between "burgers" and "BBQ", "mac n' cheese" and "meatballs", you might wonder if you've walked into a carnivore convention by mistake. Closer inspection reveals, though, that these meaty mainstays have all been faithfully recreated to omit any trace of animal: burgers are made of beans, meatballs of mushrooms, and so on.

While this might make even the most unrepentant of carnivores feel at home, what results is an odd sort of Turing taste test, whereby dishes are inevitably compared to their omnivorous equivalents. The results of this experiment are a decidedly mixed bag. The shitaake bacon — scattered generously across several dishes — bore all the saltiness and crunchiness of its pork-based progenitor. But the "Classic Burger" patty — formed of tempeh, lentil, chia and walnuts - was not convincingly bovine, and the cashew mac n' cheese proved suspiciously sweet rather than than savory.

More perplexing than these noble attempts to recreate traditional American fare was the apparent insistence that even food

which is already vegan also needed a makeover. There aren't many more distinctive tastes in the vegan palette than the briny, pickle. garlicky yet somehow, the one in the burger

bite. The "air-baked" sweet potato fries were a soggy, stodgy affair, and even a staple like ketchup wasn't spared, with tomatoes one of the best plant-based sources of umami — inexplicably replaced by beets.

When By Chloe wasn't trying to reinvent the wheel, the results were much better. The kale caesar salad was addictive — crunchy kale topped with avocado, the aforementioned fake bacon, and a creamy, peppery dressing which I really couldn't believe wasn't dairy. And I would guess that other menu items that sound more like conventional vegan food, like avocado toast and pesto pasta, might also be more satisfying.

All of which makes you wonder whether By Chloe is a missed opportunity. The brush steel decor and faintly high-tech elements (By Chloe will text you when your order is ready) inevitably invite comparisons to Cambridge's own veggie fast food empire, Clover. But whereas Clover uses meat substitutes sparingly and caringly, focusing more on elevating eggplant than camouflaging cauliflower, By Chloe's relentless mission of meat mimicry is almost destined to leave you wanting more. In this sense, it's unfortunate that another New York import, Shake Shack, stands between By Chloe and the nearest T stop. Walking past Shake Shack's window on the way back, it's tempting to feel as though lacked any sort of you've paid more for less, like buying expen $\star\star$ \diamond \diamond \diamond

By Chloe

Mon - Fri, 11 a.m. - 10 p.m.

Sat - Sun, 10 a.m. - 10

107 Seaport Boulevard

Boston, MA 02210

sive tickets to a tribute band before finding cheaper seats for the real thing.

But grading on a curve seems necessary in this case. While By Chloe's methadonemeat more often loses than wins its self-imposed Imitation Game, it still deserves credit for carving out a niche for vegan food which holds mass appeal. Facing up to the ethical and ecological harms of rearing animals for food is going to be harder to ignore in the years to come By Chloe's answer - to ate meat without using meat - is laudable. Too bad the fries aren't fried and the pickles aren't pickled.





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Thursday, March 09, 2017



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8 THE TECH
THURSDAY, MARCH 09, 2017

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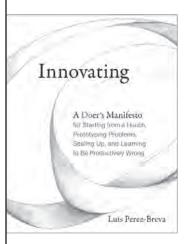
Email join@tech.mit.edu or mention @thetech

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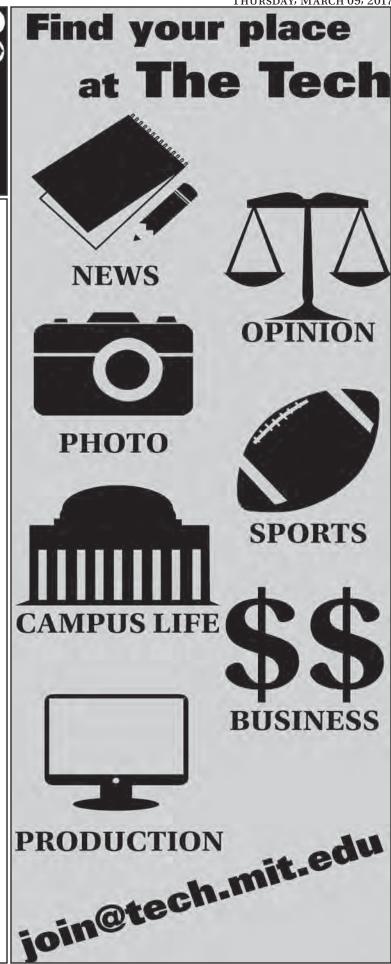
Tuesday, March 14, 6 pm The MIT Press Bookstore 301 Massachusetts Ave., Cambridge



The MIT Press Bookstore presents innovator and entrepreneur Luis Perez-Breva, Lecturer and a Research Scientist at MIT's School of Engineering, discussing his book, *Innovating: A Doer's Manifesto for Starting from a Hunch, Prototyping Problems, Scaling Up, and Learning to Be Productively Wrong*, at 6:00 pm on Tuesday, March 14, at the Bookstore.



In *Innovating*, Luis Perez-Breva describes a different approach to innovation—a doer's approach developed over a decade at MIT and internationally in workshops, classes, and companies. He shows that to start innovating it doesn't require an earth-shattering idea; all it takes is a hunch. Anyone can do it. By prototyping a problem and learning by being wrong, innovating can be scaled up to make an impact.



MIT REUSE AND REPAIR FAIR

Friday, March 10

Student Center 11 AM-2 PM

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Any Brand Clothing Repairs

FREE by the Patagonia Worn Wear Crew

10 AM-5 PM



What to Do, How to Live

Personal Activism for a Threatened Planet

5 PM-7 PM

La Sala de Puerto Rico













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Priscilla King Gray Public Service Center

TECH TRANSFERS

Srini Devadas

Immigrant members of the MIT community

I grew up in various cities in India and arrived at the University of California, Berkeley for graduate school in 1985, weeks after turning 21. After getting my PhD at UCB, I came to MIT in 1988 and have been here ever since. Partly because of the length of time I have spent in the States, and partly because I have two adult daughters who were born and raised in Massachusetts, I feel very Ameri-

can. And thanks to being at MIT for almost 30 years, I have wonderful friends from all over the world whose friendships I cherish greatly.

Srini Devadas is a Webster Professor of Electrical Engineering and Computer Science and a MacVicar Fellow.

Editor's note: Tech Transfers is a photo series by Professor Daniel Jackson that features immigrant members of MIT.

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Srini Devadas, Webster Professor of Electrical Engineering and Computer Science.

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PUS LIFE CAMPUS LIFE

FUNFUNFUNFUNFUNFUN

Add

Solution, page 2

3	5				7			
		4				3		
	7	6	9	2	3			
	1				4			3
	3		2		5		6	
8			1				5	
			3	6	2	1	9	
		1				6		
			7				8	4

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

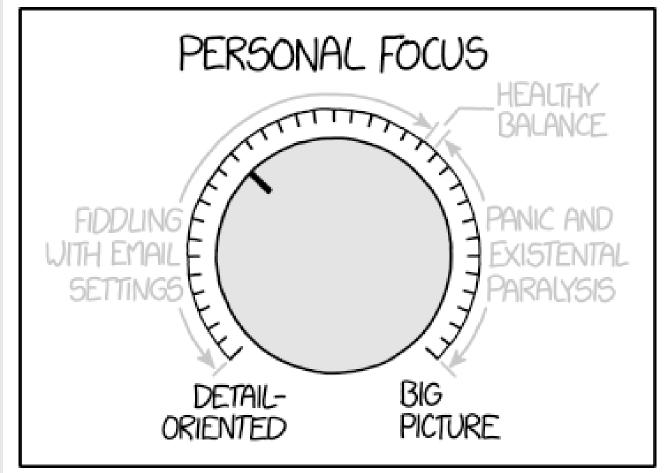
Drop

Solution, page 2

								9
7		6	4	9			5	
					7	4	6	2
6	1				9			
5		7				9		6
			2				1	7
4	7	3	5					
	6			3	4	7		8
8								

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

[1796] Focus Knob



Maybe if I spin it back and forth really fast I can do some kind of pulse-width modulation.

A WEBCOMIC OF ROMANCE, SARCASM, MATH, AND LANGUAGE by Randall Munroe

[1805] Unpublished Discoveries



SEVERAL RESEARCH TEAMS
OUT THERE WHO ARE SITTING
ON NOBEL-PRIZE-WORTHY
DISCOVERIES, BUT HAVEN'T
TOLD THE REST OF US YET.

MAKES
SENSE.

SO THERE ARE PROBABLY





If you must know, I'm currently researching how to save this emailed tax form as a regular PDF so I can print and sign it. Our work isn't a lock for the Nobel, but we're in the running.

Exploratory Solution, page 2

8×	9+	 	15×	 	144×	 	27×	
	144×			- 14×	┥	- 3-		2
40×		-	7		29+		324×	<u> </u>
10×			32×		-	-		3
23+				<u> </u>		16×		5
	22+				8÷		112×	<u> </u>
31+			22+					- 1
	8-	 	216×	 	┪	- 20×	7×	<u> </u>
7	┨	6		- 12×		-	16×	
					I I			I I

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–9. Follow the mathematical operations for each box.

Fellows at First by Sandy Fein

Solution, page 2

ACROSS

- 5 International agreements
- 10 Little devils
- 14 Ocean's rise and fall 15 Sneeze sound
- 16 Attach with a hammer
- 17 Fortune-teller's sign
- 18 Showing no emotion 19 Aware of
- 20 Absolutely required
- 22 Edge of a bread slice
- 23 Look without blinking 24 Occupations
- 25 Sets boundaries
- 28 Skin above a fingernail 31 Person from Teheran
- 32 Hot tubs
- 34 Quick haircut
- 35 Devotee
- 36 Provide special treatment
- 39 "Now __ seen everything"
- 40 Incoming-flight stats: Abbr.
- 42 Touch down, as a plane
- 43 Pied __ (legendary rat catcher)

- 45 Habitual customer
- 48 Historical periods
- 49 Boscs and Bartletts
- 51 Sleeps beneath the stars
- 53 Big Apple island
- 57 Region
- 58 Ship of 1492
- 59 Island near Maui
- 60 Fish's flippers
- 61 Below 62 "Hurry up!"
- 63 Has a meal
- 64 Princess' crown
- 65 Door openers

DOWN

- 1 Molecule component
- 2 Capital of Peru
- 3 Adam and Eve's home
- 4 Submits, as a contest entry 5 Spaghetti and ziti
- 6 Film performer
- 7 Routine household task
- 8 Broadway award
- 9 __ sauce (Chinese condiment)

- 10 Circling the earth
- 12 Seeds in cherries
- 13 Opening for a coin
- 21 Home's top-floor
- storage area 22 Rollaway bed

24 __ in time (right before

- the deadline) 25 Career soldier
- 26 Very angry 27 Group running a
- business 28 Ace of clubs, for instance
- 29 "Chopped" organ meat
- 30 __ board (manicurist's tool)
- 32 Constellation
- component 33 Writing implement
- 37 "Too bad!"
- 38 Drama with sopranos
- 41 Perform better than
- 44 Available at a store 46 __ Vegas, NV
- 15 16 23 25 | 26 | 27 31 32 |33 35 36 37 40 45 46 47 49 50 51 52 54 | 55 | 56 60 61 62 63 64 65
 - 47 Large African desert
- 49 Black-and-white Chinese
- bear
- 50 Walk inside 51 "Sidewalk" eatery
- 52 Soprano solo
- 53 Short skirt
- 54 Gentle, as petting-zoo animals
- 55 Sailor's greeting
- 56 Convent dwellers
- 58 Stay __ (don't move)

PORTSSPORTS

SPORTS BLITZ

Women's Lacrosse (1-1) split their first two games of the season. They won handily against Keene State College 24-16 but lost 12-5 to Tufts.

Men's Lacrosse (1-1) also split their first two games. After dominating University of Southern Maine 19-2, they narrowly lost 11-12 to Hartwick College.

Men's Baseball (1-1) played two games against Texas Lutheran, winning the first 3-2 but dropping the second 8-4.

Men's Tennis (4-0) defeated Bates College 6-3 to continue commanding start of the season. Alex Cauneac '19 and Bryan Lilley '18 were named NEWMAC Doubles Team of the Week.

Men's Volleyball (17-5) started the week with a 3-0 victory over Emmanuel College but lost the following two games against Vassar College and Juniata College

Do you wish your sport was covered?

Hello, Athletes, look at the sports page, now back to you, now back to the sports page, now back to you. Sadly, your sport isn't there, but if you started writing for *The Tech*, it could be. Look down, back up, where are you? You're on the front page. Anything is possible when you write for *The Tech*.

sports@tech.mit.edu

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> AND OTHER STORIES





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